

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101667, 966B

Source: IFW

Date Processed by STIC: 12-28-08

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/667,966B

TIME: 09:47:48

Input Set : A:\US10667966.ST25.txt

Output Set: N:\CRF4\12282004\J667966B.raw

```

3 <110> APPLICANT: Xie, Dong
4     Jiang, He
6 <120> TITLE OF INVENTION: Peptide Derivative Fusion Inhibitors of HIV Infection
8 <130> FILE REFERENCE: 63024.000002
10 <140> CURRENT APPLICATION NUMBER: 10/667,966B
11 <141> CURRENT FILING DATE: 2003-09-23
13 <150> PRIOR APPLICATION NUMBER: 60/412,797
14 <151> PRIOR FILING DATE: 2002-09-24
16 <160> NUMBER OF SEQ ID NOS: 15
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 44
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Synthetic Construct
28 <400> SEQUENCE: 1
30 Ser Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Glu Glu Trp Asp Arg
31 1           5           10           15
34 Glu Ile Asn Asn Tyr Thr Glu Leu Ile His Glu Leu Ile Glu Glu Ser
35           20           25           30
38 Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu
39           35           40
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 34
44 <212> TYPE: PRT
45 <213> ORGANISM: Artificial sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Synthetic Construct
50 <400> SEQUENCE: 2
52 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Lys Leu Ile His
53 1           5           10           15
56 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu
57           20           25           30
60 Leu Leu
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 39
66 <212> TYPE: PRT
67 <213> ORGANISM: Artificial sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Synthetic Construct
72 <400> SEQUENCE: 3
74 Trp Gln Glu Trp Glu Gln Lys Ile Thr Ala Leu Leu Glu Gln Ala Gln

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75 1           5           10           15
78 Ile Gln Gln Glu Lys Asn Glu Tyr Glu Leu Gln Lys Leu Asp Lys Trp
79           20           25           30
82 Ala Ser Leu Trp Glu Trp Phe
83           35
86 <210> SEQ ID NO: 4
87 <211> LENGTH: 36
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Synthetic Construct
94 <400> SEQUENCE: 4
96 Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln
97 1           5           10           15
100 Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu
101           20           25           30
104 Trp Asn Trp Phe
105           35
108 <210> SEQ ID NO: 5
109 <211> LENGTH: 34
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Synthetic Construct
116 <400> SEQUENCE: 5
118 Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His
119 1           5           10           15
122 Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu
123           20           25           30
126 Leu Leu
130 <210> SEQ ID NO: 6
131 <211> LENGTH: 34
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Synthetic Construct
138 <400> SEQUENCE: 6
140 Trp Gln Glu Trp Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr
141 1           5           10           15
144 Ala Leu Leu Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu
145           20           25           30
148 Leu Gln
152 <210> SEQ ID NO: 7
153 <211> LENGTH: 34
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Synthetic Construct
160 <400> SEQUENCE: 7

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## RAW SEQUENCE LISTING

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Input Set : A:\US10667966.ST25.txt

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162 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Lys Leu Ile His  
 163 1 5 10 15  
 166 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Glu Asn Glu Gln Glu  
 167 20 25 30  
 170 Leu Leu

174 &lt;210&gt; SEQ ID NO: 8

175 &lt;211&gt; LENGTH: 44

176 &lt;212&gt; TYPE: PRT

177 &lt;213&gt; ORGANISM: Artificial sequence

179 &lt;220&gt; FEATURE:

180 &lt;223&gt; OTHER INFORMATION: Synthetic Construct

183 &lt;220&gt; FEATURE:

184 &lt;221&gt; NAME/KEY: MISC\_FEATURE

185 &lt;222&gt; LOCATION: (23)..(23)

186 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide  
 187 moiety.

189 &lt;400&gt; SEQUENCE: 8

191 Ser Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Glu Glu Trp Asp Arg  
 192 1 5 10 15

W--&gt; 195 Glu Ile Asn Asn Tyr Thr Xaa Leu Ile His Glu Leu Ile Glu Glu Ser

196 20 25 30  
 199 Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu

200 35 40  
 203 <210> SEQ ID NO: 9

204 &lt;211&gt; LENGTH: 45

205 &lt;212&gt; TYPE: PRT

206 &lt;213&gt; ORGANISM: Artificial sequence

208 &lt;220&gt; FEATURE:

209 &lt;223&gt; OTHER INFORMATION: Synthetic Construct

212 &lt;220&gt; FEATURE:

213 &lt;221&gt; NAME/KEY: MISC\_FEATURE

214 &lt;222&gt; LOCATION: (45)..(45)

215 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide  
 216 moiety.

218 &lt;400&gt; SEQUENCE: 9

220 Ser Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Glu Glu Trp Asp Arg  
 221 1 5 10 15

224 Glu Ile Asn Asn Tyr Thr Glu Leu Ile His Glu Leu Ile Glu Glu Ser  
 225 20 25 30

W--&gt; 228 Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Xaa

229 35 40 45  
 232 <210> SEQ ID NO: 10

233 &lt;211&gt; LENGTH: 34

234 &lt;212&gt; TYPE: PRT

235 &lt;213&gt; ORGANISM: Artificial sequence

237 &lt;220&gt; FEATURE:

238 &lt;223&gt; OTHER INFORMATION: Synthetic Construct

241 &lt;220&gt; FEATURE:

242 &lt;221&gt; NAME/KEY: MISC\_FEATURE

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Input Set : A:\US10667966.ST25.txt

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243 <222> LOCATION: (13)..(13)  
 244 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide  
 245 moiety.  
 247 <400> SEQUENCE: 10  
**W--> 249 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Xaa Leu Ile His**  
 250 1 5 10 15  
 253 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Trp Glu  
 254 20 25 30  
 257 Leu Leu  
 261 <210> SEQ ID NO: 11  
 262 <211> LENGTH: 35  
 263 <212> TYPE: PRT  
 264 <213> ORGANISM: Artificial sequence  
 266 <220> FEATURE:  
 267 <223> OTHER INFORMATION: Synthetic Construct  
 270 <220> FEATURE:  
 271 <221> NAME/KEY: MISC\_FEATURE  
 272 <222> LOCATION: (35)..(35)  
 273 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide  
 274 moiety.  
 276 <400> SEQUENCE: 11  
 278 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Glu Leu Ile His  
 279 1 5 10 15  
 282 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu  
 283 20 25 30  
**W--> 286 Leu Leu Xaa**  
 287 35  
 290 <210> SEQ ID NO: 12  
 291 <211> LENGTH: 39  
 292 <212> TYPE: PRT  
 293 <213> ORGANISM: Artificial sequence  
 295 <220> FEATURE:  
 296 <223> OTHER INFORMATION: Synthetic Construct  
 299 <220> FEATURE:  
 300 <221> NAME/KEY: MISC\_FEATURE  
 301 <222> LOCATION: (13)..(13)  
 302 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide  
 303 moiety.  
 305 <400> SEQUENCE: 12  
**W--> 307 Trp Gln Glu Trp Glu Gln Lys Ile Thr Ala Leu Leu Xaa Gln Ala Gln**  
 308 1 5 10 15  
 311 Ile Gln Gln Glu Lys Asn Glu Tyr Glu Leu Gln Lys Leu Asp Lys Trp  
 312 20 25 30  
 315 Ala Ser Leu Trp Glu Trp Phe  
 316 35  
 319 <210> SEQ ID NO: 13  
 320 <211> LENGTH: 40  
 321 <212> TYPE: PRT  
 322 <213> ORGANISM: Artificial sequence

## RAW SEQUENCE LISTING

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324 <220> FEATURE:
325 <223> OTHER INFORMATION: Synthetic Construct
328 <220> FEATURE:
329 <221> NAME/KEY: MISC_FEATURE
330 <222> LOCATION: (40)..(40)
331 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
332 moiety.
334 <400> SEQUENCE: 13
336 Trp Gln Glu Trp Glu Gln Lys Ile Thr Ala Leu Ile Glu Gln Ala Gln
337 1 5 10 15
340 Ile Gln Gln Glu Lys Asn Glu Tyr Glu Leu Gln Lys Leu Asp Lys Trp
341 20 25 30
W--> 344 Ala Ser Leu Trp Glu Trp Phe Xaa
345 35 40
348 <210> SEQ ID NO: 14
349 <211> LENGTH: 34
350 <212> TYPE: PRT
351 <213> ORGANISM: Artificial sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: Synthetic Construct
357 <220> FEATURE:
358 <221> NAME/KEY: MISC_FEATURE
359 <222> LOCATION: (13)..(13)
360 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
361 moiety.
363 <400> SEQUENCE: 14
W--> 365 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Xaa Leu Ile His
366 1 5 10 15
369 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Glu Asn Glu Gln Glu
370 20 25 30
373 Leu Leu
377 <210> SEQ ID NO: 15
378 <211> LENGTH: 35
379 <212> TYPE: PRT
380 <213> ORGANISM: Artificial sequence
382 <220> FEATURE:
383 <223> OTHER INFORMATION: Synthetic Construct
386 <220> FEATURE:
387 <221> NAME/KEY: MISC_FEATURE
388 <222> LOCATION: (35)..(35)
389 <223> OTHER INFORMATION: Xaa represents a Lysine residue derivatized with a maleimide
390 moiety.
392 <400> SEQUENCE: 15
394 Trp Glu Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr Lys Leu Ile His
395 1 5 10 15
398 Glu Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Glu Asn Glu Gln Glu
399 20 25 30
W--> 402 Leu Leu Xaa
403 35

```

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/10/667,966B

DATE: 12/28/2004  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 23 ✓

Seq#:9; Xaa Pos. 45 ✓

Seq#:10; Xaa Pos. 13 ✓

Seq#:11; Xaa Pos. 35 ✓

Seq#:12; Xaa Pos. 13 ✓

Seq#:13; Xaa Pos. 40 ✓

Seq#:14; Xaa Pos. 13 ✓

Seq#:15; Xaa Pos. 35 ✓

**VERIFICATION SUMMARY**

DATE: 12/28/2004

PATENT APPLICATION: **US/10/667,966B**

TIME: 09:47:49

Input Set : **A:\US10667966.ST25.txt**Output Set: **N:\CRF4\12282004\J667966B.raw**

L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16  
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:32  
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:32  
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:32  
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:32